



FIG. 1A

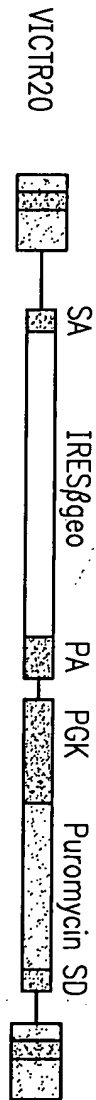
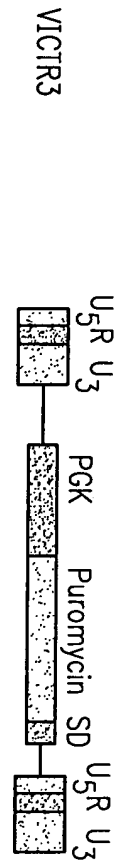


FIG. 1B

WILDTYPE LOCUS ...

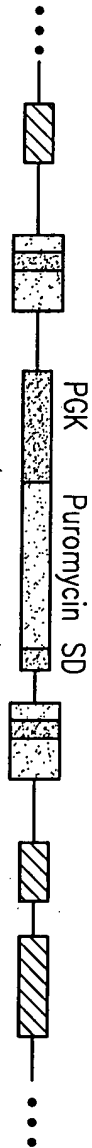
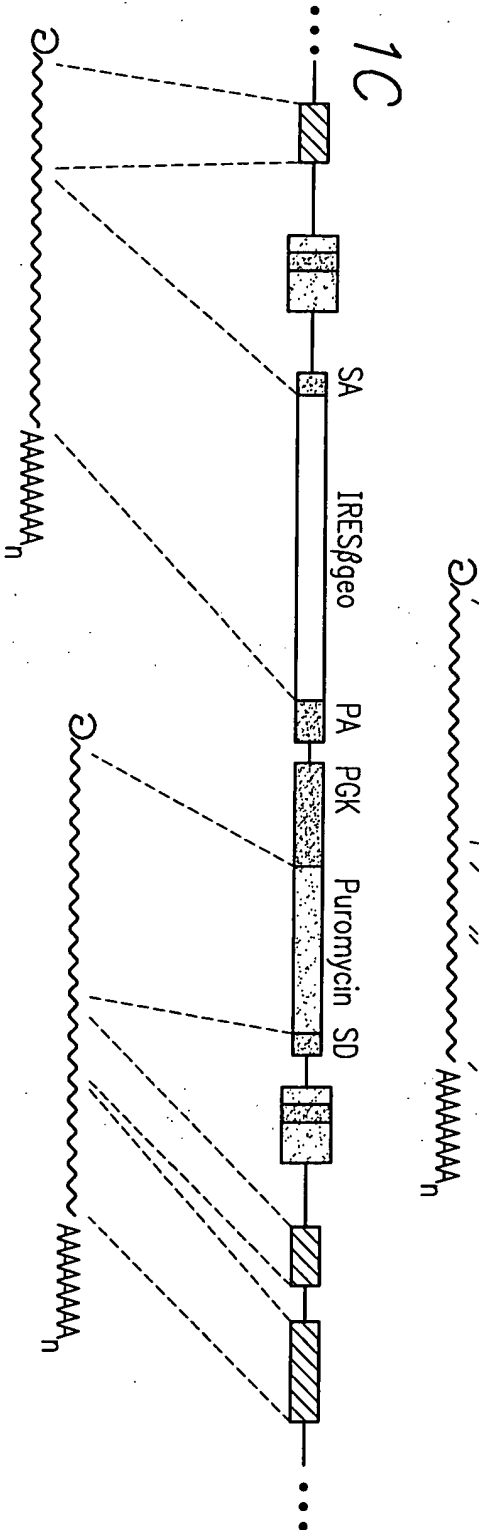


FIG. 1C





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FIGURE 2

OST114198 OC8729 (Similar To: AA791497)  
OST116050 OC11313 (Similar To: AA474901)  
OST116739 OC1355 (Similar To: AA563095)  
OST118079 OC11070 (Similar To: AI157392)  
OST123840 OC17436 (Similar To: AA693056)  
OST125603 OC10138 (Similar To: AA338690)  
OST123893 OC8202 (Similar To: AV126723)  
OST126932 OC21547 (Similar To: AI606698)  
OST125827 OC21569 (Similar To: AA545258)  
OST125898 OC21575 (Similar To: AI114955)  
OST125959 OC21590 (Similar To: AI840235)  
OST125983 OC21597 (Similar To: AI552250)  
OST126022 OC21604 (Similar To: AA538375)  
OST127436 OC21618 (Similar To: AI851301)  
OST126343 OC21653 (Similar To: AI428823)  
OST126359 OC21657 (Similar To: AI504897)  
OST126387 OC21660 (Similar To: AI747018)  
OST126431 OC21666 (Similar To: AA444250)  
OST126449 OC21667 (Similar To: AA014831)  
OST126476 OC21672 (Similar To: AI228158)  
OST126598 OC21686 (Similar To: AA013850)  
OST126608 OC14104 (Similar To: AA239671)  
OST126665 OC21692 (Similar To: AI549163)  
OST126670 OC21693 (Similar To: AI552025)  
OST126720 OC21698 (Similar To: AA162305)  
OST126723 OC21699 (Similar To: AA472426)  
OST126744 OC21703 (Similar To: AI505521)  
OST126769 OC21709 (Similar To: AV145606)  
OST126790 OC21715 (Similar To: AV093215)  
OST126811 OC21720 (Similar To: AI046973)  
OST126834 OC21724 (Similar To: AV118743)  
OST126866 OC21728 (Similar To: AA098144)  
OST126880 OC21731 (Similar To: AI848309)  
OST126886 OC21732 (Similar To: AA914442)  
OST126897 OC21733 (Similar To: AI573780)  
OST126922 OC21736 (Similar To: AI037622)  
OST126931 OC21737 (Similar To: AA881319)  
OST126935 OC21738 (Similar To: AA791478)  
OST127035 OC21760 (Similar To: AA259605)  
OST127054 OC8809 (Similar To: AI449209)  
OST127105 OC21772 (Similar To: AA816228)  
OST127133 OC21779 (Similar To: AI788152)



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OST127174 OC21782 (Similar To: AA030194)  
OST127191 OC21784 (Similar To: AA259844)  
OST127336 OC21811 (Similar To: AA387782)  
OST127346 OC21817 (Similar To: AA153672)  
OST127423 OC21827 (Similar To: AA086985)  
OST127426 OC21828 (Similar To: AI504070)  
OST127450 OC21833 (Similar To: W71511)  
OST127506 OC21843 (Similar To: AA879898)  
OST127509 OC21845 (Similar To: AI427240)  
OST127692 OC21868 (Similar To: AA050351)  
OST127753 OC21878 (Similar To: AA171322)  
OST127762 OC21880 (Similar To: AA036177)  
OST127804 OC21889 (Similar To: AI506403)  
OST127808 OC21890 (Similar To: AA990330)  
OST127812 OC21891 (Similar To: AA200668)  
OST127875 OC21903 (Similar To: AA410072)  
OST127964 OC21904 (Similar To: AI647908)  
OST127895 OC21906 (Similar To: AI647487)  
OST128006 OC21922 (Similar To: AA763225)  
OST128014 OC21923 (Similar To: AI120288)  
OST128043 OC21930 (Similar To: AA139270)  
OST128083 OC21938 (Similar To: AA562445)  
OST128107 OC21943 (Similar To: AI194439)  
OST128109 OC21944 (Similar To: AI194439)  
OST128111 OC21945 (Similar To: AI194439)  
OST128128 OC21948 (Similar To: AI385966)  
OST128208 OC21956 (Similar To: AI450276)  
OST128285 OC21966 (Similar To: AA241808)  
OST128304 OC21968 (Similar To: C89508)  
OST128356 OC21972 (Similar To: AA152982)  
OST128373 OC21973 (Similar To: AA546519)  
OST128407 OC21979 (Similar To: AA271059)  
OST128415 OC21980 (Similar To: AA137957)  
OST128425 OC21982 (Similar To: AA408830)  
OST128534 OC21993 (Similar To: AA967255)  
OST128584 OC22002 (Similar To: AI661305)  
OST128632 OC22009 (Similar To: AA764230)  
OST128683 OC22019 (Similar To: AV043661)  
OST128739 OC22029 (Similar To: AA718379)  
OST128770 OC22036 (Similar To: AI449409)  
OST128774 OC22037 (Similar To: AA833329)  
OST128780 OC22040 (Similar To: AI604451)  
OST128813 OC22044 (Similar To: AA175580)  
OST128880 OC22051 (Similar To: AI789522)



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OST128900 OC22054 (Similar To: AI303317)  
OST128952 OC22061 (Similar To: AI605196)  
OST128969 OC22063 (Similar To: X98200)  
OST128996 OC22071 (Similar To: AI558020)  
OST129092 OC22082 (Similar To: AA063763)  
OST129144 OC22094 (Similar To: AI159233)  
OST129154 OC22097 (Similar To: AI427595)  
OST129160 OC22099 (Similar To: AA033432)  
OST129305 OC22112 (Similar To: AA866930)  
OST129385 OC13840 (Similar To: AA254573)  
OST129429 OC22122 (Similar To: W53703)  
OST129445 OC22124 (Similar To: AA863736)  
OST129465 OC22127 (Similar To: AI838686)  
OST129501 OC22132 (Similar To: AI467473)  
OST129561 OC22139 (Similar To: AA061868)  
OST129566 OC22140 (Similar To: AV080665)  
OST129573 OC22142 (Similar To: AA549116)  
OST129580 OC22143 (Similar To: AU051119)  
OST129671 OC22154 (Similar To: AU045249)  
OST129867 OC22172 (Similar To: AI466419)  
OST129972 OC22186 (Similar To: AI614350)  
OST129991 OC22189 (Similar To: AI116579)  
OST130005 OC22192 (Similar To: AI787856)  
OST130017 OC22194 (Similar To: AI852799)  
OST130049 OC22200 (Similar To: AA881601)  
OST130098 OC22207 (Similar To: AA546519)  
OST130135 OC22213 (Similar To: AI550433)  
OST130276 OC22226 (Similar To: AA137855)  
OST130279 OC22227 (Similar To: AI449349)  
OST130376 OC22243 (Similar To: AA080170)  
OST130447 OC22249 (Similar To: AA123768)  
OST130449 OC22250 (Similar To: AI854087)  
OST130296 OC22230 (Similar To: AA036152)  
OST128689 OC22021 (Similar To: AI788442)  
OST127345 OC21816 (Similar To: AI225922)  
OC21558 OST125775, similar to musEST:AA060014  
  
OC21559 OST125776, similar to genpept:4090239  
musEST:AI098805  
OC21562 OST125794, similar to gsp:W84267  
musEST:AA445393  
OC21568 OST125822, similar to genpept:433437  
musEST:AA221654  
OC21576 OST125904, similar to musEST:AI606999



OC21564 OST125912, similar to sp:P26284  
musEST:W14444  
OC21578 OST125914, similar to genpept:5764099  
musEST:AA209605  
OC21579 OST125916, similar to humEST:Z20148  
OC21580 OST125919, similar to sp:P70168  
OC21581 OST125921, similar to genpept:3776076  
musEST:AI006635  
OC21596 OST125977, similar to genpept:6014491  
musEST:AA871774  
OC21599 OST125993, similar to genpept:5880865  
musEST:AA717005  
OC21606 OST126032, similar to sp:Q03145  
musEST:AI325344  
OC21607 OST126033, similar to musEST:AA815785  
  
OC21608 OST126034, similar to genpept:1086886  
musEST:AA549135  
OC21612 OST126052, similar to musEST:AI642663  
  
OC21614 OST126093, similar to genpept:4200234  
musEST:AA117035  
OC21615 OST126099, similar to genpept:3327196  
othEST:AW059255  
OC21616 OST126107, similar to sp:P12032  
musEST:AA869885  
OC21619 OST126146, similar to sp:P16443  
musEST:AA638671  
OC21624 OST126174, similar to gsp:Y02135  
musEST:AA670682  
OC21627 OST126183, similar to genpept:4159682  
musEST:AV120510  
OC21628 OST126191, similar to sp:P05387  
musEST:AA710771  
OC21634 OST126215, similar to sp:Q98892  
musEST:AA762103  
OC21636 OST126219, similar to sp:O18968  
musEST:AA260373  
OC21637 OST126222, similar to genpept:2565396  
musEST:AU051053  
OC21642 OST126273, similar to musEST:AI508353  
  
OC21643 OST126285, similar to musEST:AW046844



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OC21651 OST126324, similar to sp:P32037  
musEST:AA177312  
OC21652 OST126329, similar to gsp:R78693  
musEST:AI425406  
OC21640 OST126335, similar to genpept:5823528  
musEST:AI115884  
OC21654 OST126345, similar to sp:Q62468  
musEST:AI663456  
OC21658 OST126364, similar to genpept:2707344  
OC21663 OST126416, similar to musEST:AA166560  
  
OC21665 OST126427, similar to gsp:P60956  
musEST:AI181068  
OC21679 OST126539, similar to musEST:AA563095  
  
OC21682 OST126569, similar to sp:P08033  
musEST:AI326489  
OC21687 OST126600, similar to sp:P02362  
musEST:AA796426  
OC21688 OST126626, similar to genpept:3342738  
OC21694 OST126695, similar to gsp:Y12504  
musEST:AA881842  
OC21700 OST126726, similar to sp:Q13796  
OC21708 OST126767, similar to genpept:4322936  
musEST:AA771056  
OC21713 OST126784, similar to sp:P25785  
musEST:AI265017  
OC21701 OST126814, similar to sp:P02584  
musEST:AA027646  
OC21722 OST126821, similar to genpept:3873699  
musEST:AI466983  
OC21723 OST126827, similar to genpept:5931549  
musEST:AA000352  
OC21735 OST126919, similar to sp:Q62193  
musEST:AA266114  
OC21734 OST126921, similar to musEST:AW049303  
  
OC21745 OST126967, similar to gsp:R84638  
OC21750 OST126979, similar to gsp:R54114  
musEST:AI790814  
OC21751 OST126981, similar to sp:O09043  
musEST:AA106277  
OC21754 OST126997, similar to genpept:2130632



musEST:AA445762  
OC21764 OST127062, similar to genpept:2150136  
musEST:AA152917  
OC21770 OST127093, similar to sp:P26438  
musEST:AA688904  
OC21777 OST127120, similar to genpept:2104558  
OC21780 OST127138, similar to sp:P13656  
musEST:AA111068  
OC21781 OST127154, similar to sp:P41094  
musEST:AA038290  
OC21786 OST127219, similar to sp:P21677  
musEST:AI326744  
OC21788 OST127227, similar to gsp:W69436  
musEST:AA688634  
OC21791 OST127245, similar to humEST:AI693917  
  
OC21794 OST127266, similar to genpept:2352822  
musEST:W99912  
OC21795 OST127273, similar to musEST:W16254  
OC21802 OST127303, similar to musEST:AA272148  
  
OC21803 OST127306, similar to genpept:6013425  
musEST:AI315865  
OC21815 OST127344, similar to musEST:AW050278  
  
OC21818 OST127347, similar to gsp:R99737  
rateEST:AI104838  
OC21821 OST127379, similar to genpept:4529843  
musEST:AW045124  
OC21839 OST127484, similar to musEST:AA071990  
  
OC21841 OST127492, similar to gsp:Y08404  
musEST:AI614423  
OC21842 OST127504, similar to musEST:AA475011  
  
OC21847 OST127512, similar to musEST:AA197693  
  
OC21850 OST127536, similar to genpept:5817200  
OC21862 OST127665, similar to genpept:3319971  
musEST:AI226514  
OC21864 OST127676, similar to rateEST:R47117  
OC21865 OST127677, similar to sp:P23589  
musEST:AA254829



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OC21867 OST127687, similar to gsp:W27721

musEST:AA471799  
OC21869 OST127697, similar to musEST:AA174702

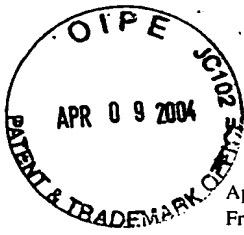
OC21874 OST127740, similar to musEST:AA983032

OC21883 OST127783, similar to sp:Q63450  
musEST:AA983097  
OC21900 OST127843, similar to genpept:2587056  
musEST:AA170916  
OC21902 OST127865, similar to genpept:1469809  
musEST:AI956855  
OC21910 OST127924, similar to gsp:R27281  
musEST:AA794776  
OC21912 OST127926, similar to gsp:W31277  
musEST:AA111486  
OC21917 OST127955, similar to genpept:2911905  
ratEST:AI764348  
OC21929 OST128039, similar to musEST:AA163617

OC21933 OST128051, similar to gsp:R90577  
ratEST:AI549479  
OC21935 OST128072, similar to genpept:4589570  
OC21939 OST128088, similar to sp:P56603  
musEST:AA013693  
OC21946 OST128118, similar to genpept:4519623  
musEST:AA600647  
OC21949 OST128141, similar to genpept:5656743  
musEST:AA003784  
OC21950 OST128146, similar to musEST:W91302  
OC21965 OST128284, similar to sp:O73917  
humEST:T27922  
OC21969 OST128310, similar to genpept:2289902  
OC21975 OST128377, similar to gsp:W89051  
musEST:AI181191  
OC21977 OST128394, similar to genpept:1864159  
musEST:AA272267  
OC21987 OST128465, similar to musEST:AA277062

OC21997 OST128565, similar to genpept:2564328  
ratEST:AI454404  
OC21998 OST128566, similar to musEST:AA867087





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OC21999 OST128568, similar to genpept:3879669  
musEST:W53812

OC22001 OST128580, similar to genpept:1938351  
musEST:AA261400

OC22006 OST128615, similar to genpept:3319290  
musEST:W34526

OC22010 OST128636, similar to sp:P56581  
musEST:W98015

OC22011 OST128638, similar to genpept:2662073  
musEST:AI322529

OC22013 OST128644, similar to genpept:4959955  
musEST:AA048951

OC22014 OST128646, similar to musEST:AA545349

OC22023 OST128699, similar to gsp:R10834  
rateEST:AI228538

OC22025 OST128713, similar to gsp:Y02281  
musEST:W67047

OC22027 OST128724, similar to musEST:AI119098

OC22041 OST128782, similar to gsp:W19615  
musEST:AA230758

OC22043 OST128799, similar to gsp:W67858  
musEST:AA756259

OC22049 OST128861, similar to genpept:639819  
OC22067 OST128979, similar to musEST:AI527717

OC22068 OST128985, similar to genpept:4092930  
OC22072 OST128998, similar to sp:Q07760

musEST:AA259568  
OC22077 OST129045, similar to musEST:AA666569

OC22078 OST129049, similar to genpept:2623224  
musEST:AA152541

OC22090 OST129129, similar to genpept:5689523  
OC22091 OST129131, similar to musEST:AA118026

OC22095 OST129145, similar to musEST:AA273526

OC22096 OST129153, similar to musEST:AA255075

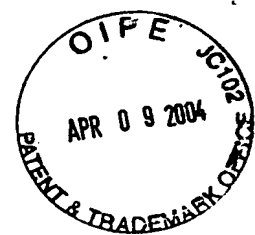
OC22102 OST129178, similar to musEST:AA422257



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OC22107 OST129272, similar to genpept:3406747  
musEST:AA667941  
OC22114 OST129311, similar to musEST:AW045373  
  
OC22119 OST129408, similar to genpept:4106673  
musEST:AA387520  
OC22134 OST129514, similar to sp:P53395  
musEST:AI172922  
OC22137 OST129542, similar to gsp:Y12658  
musEST:AI596803  
OC22146 OST129608, similar to gsp:W00094  
musEST:AA000225  
OC21620 OST129662, similar to sp:P12367  
musEST:AA066029  
OC22155 OST129778, similar to gsp:R79654  
musEST:AA013850  
OC22166 OST129833, similar to genpept:6019464  
musEST:AA451398  
OC22170 OST129846, similar to sp:P34670  
musEST:AI892537  
OC22174 OST129879, similar to genpept:2895097  
musEST:AI647763  
OC22176 OST129899, similar to genpept:1022718  
musEST:AJ006255  
OC22182 OST129932, similar to genpept:309519  
musEST:AA396024  
OC22185 OST129947, similar to genpept:1065515  
musEST:AA238413  
OC22188 OST129984, similar to gsp:R63789  
musEST:W53729  
OC22202 OST130060, similar to sp:Q22067  
musEST:AA061300  
OC22204 OST130074, similar to genpept:5080758  
musEST:AI118868  
OC22205 OST130085, similar to sp:O74893  
musEST:AA033437  
OC22217 OST130203, similar to sp:Q60696  
musEST:W14130  
OC22219 OST130223, similar to genpept:2047352  
musEST:AA028667  
OC22237 OST130324, similar to genpept:437444  
musEST:AI152168  
OC22238 OST130338, similar to sp:P38663  
musEST:AA154668



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OC22240 OST130345, similar to musEST:AA183581

OC22256 OST130521, similar to musEST:AA023471

OC22258 OST130525, similar to gsp:R79455

musEST:AI225401

OC22259 OST130530, similar to genpept:3986767

musEST:AA119175

OC22263 OST130551, similar to musEST:AA427129

OC22265 OST130573, similar to musEST:AI429109

OC22266 OST130574, similar to gsp:W73473

ratEST:AA965120

OC22267 OST130592, similar to musEST:AV145872

OC22269 OST130625, similar to sp:P51655

musEST:AI893963

OC22272 OST130648, similar to sp:O89086

musEST:W97917

OC22274 OST130673, similar to musEST:AI429614

OC22276 OST130686, similar to genpept:5348334

musEST:W07885

OC22278 OST130691, similar to musEST:AI846903

OC22281 OST130698, similar to sp:P56545

musEST:AA034811

OC22284 OST130708, similar to genpept:6018317

musEST:AI415003

OC22293 OST130758, similar to genpept:469478

musEST:AA014327

OC22294 OST130759, similar to musEST:AA571382

OC22295 OST130776, similar to sp:P04073

musEST:AA120315

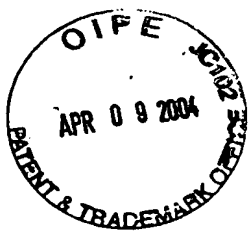
OC22300 OST130803, similar to genpept:2177174

musEST:AA034723

OC22303 OST130832, similar to musEST:AA286000

OC22304 OST130836, similar to musEST:AA930456

OC22305 OST130839, similar to musEST:AI851387



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OC22306 OST130840, similar to musEST:AA414925

OC22008 OST130841, similar to gsp:W85610

musEST:AI226464

OC22307 OST130844, similar to genpept:469478

musEST:AA014327

OC22317 OST130884, similar to musEST:AA259430

OC22320 OST130905, similar to sp:O15265

OC22321 OST130908, similar to musEST:AI605583

OC22322 OST130911, similar to genpept:1142640

musEST:AA718206

OC22324 OST130918, similar to musEST:W70839

OC22338 OST131025, similar to genpept:4589670

OC22339 OST131026, similar to gsp:W42400

musEST:AW044949

OC22340 OST131039, similar to genpept:1710988

musEST:AA549145

OC22341 OST131043, similar to genpept:3242764

musEST:AA790651

OC22343 OST131055, similar to musEST:AA691691

OC22344 OST131056, similar to sp:P22978

musEST:AA763541

OC22346 OST131079, similar to gsp:W27087

musEST:AA981010

OC22347 OST131086, similar to genpept:4689258

musEST:AA624926

OC22354 OST131121, similar to musEST:AA874608

OC22356 OST131128, similar to genpept:3135309

musEST:AI465009

OC22365 OST131207, similar to gsp:W28866

musEST:AI430135

OC22366 OST131217, similar to musEST:AA260908

OC22367 OST131226, similar to musEST:AW048792

OC22370 OST131265, similar to gsp:R88555

musEST:AA239928



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FIGURE 2  
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OC22372 OST131278, similar to genpept:1552275  
musEST:AA895031  
OC22377 OST131313, similar to genpept:4151036  
musEST:AA796275  
OC22394 OST131453, similar to gsp:W37148  
musEST:W13849

OC22398 OST131480, similar to gsp:W67438  
OC22400 OST131486, similar to gsp:W69224  
musEST:W82796  
OC22404 OST131498, similar to sp:P55197  
musEST:AA254209  
OC22405 OST131510, similar to musEST:AA290110

OC22406 OST131521, similar to gsp:Y11384  
musEST:AI645801  
OC22407 OST131528, similar to sp:P04073  
musEST:AA120315  
OC22410 OST131546, similar to genpept:3309535  
musEST:AA002757  
OC22411 OST131552, similar to gsp:W18822  
musEST:AI426764  
OC22414 OST131567, similar to sp:P22935  
musEST:AA106967  
OC22418 OST131650, similar to genpept:3335555  
musEST:AA155039  
OC22420 OST131688, similar to musEST:AA542382

OC22959 OST132630, similar to sp:O35454  
musEST:AI049336  
OC22801 OST132714, similar to sp:P11842  
musEST:AI893671  
OC22832 OST132725, similar to genpept:1944328  
musEST:AI430391  
OC22966 OST132746, similar to sp:P11842  
musEST:AI327019  
OC22785 OST132764, similar to genpept:5326828  
musEST:AI426435  
OC22945 OST133117, similar to gsp:P82319  
musEST:AA108947  
OC22970 OST134728, similar to gsp:R05562  
musEST:AI195674  
OC22847 OST134853, similar to musEST:AA638664



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OC23013 OST134896, similar to genpept:3127051  
musEST:AA451161  
OC22860 OST134903, similar to genpept:3924708  
musEST:AI427360  
OC22784 OST134909, similar to genpept:3851648  
musEST:AI849925  
OC22802 OST134948, similar to sp:Q64669

musEST:AA067351  
OC22910 OST134965, similar to genpept:1710188  
musEST:AW049887  
OC22885 OST135042, similar to genpept:5081824,  
similar to musEST:AA080020 OC22843  
OST135056, similar to musEST:C89549  
OC22773 OST135075, similar to sp:Q10430,  
similar to musEST:AA691890  
OC22798 OST135085, similar to sp:P06366  
ratEST:AA684774  
OC23023 OST135099, similar to musEST:AI391324  
  
OC22939 OST135124, similar to musEST:AA079996